

FIG. 1

CCCACGCGTCCGCAGCTTCCCGAGGCTCCGCACCAGCCGCGCTTCTGTCCGCC
 TGCAGGGCATTCCAGAAAGATGAGGATATTTGCTGTCTTTATATTCATGACCT
 ACTGGCATTGTGCTGAACGCATTTACTGTCACGGTTCCCAAGGACCTATATGTG
 GTAGAGTATGGTAGCAATATGACAATTGAATGCAAATCCCAGTAGAAAAAC
 AATTAGACCTGGCTGCACTAATTGTCTATTGGGAAATGGAGGATAAGAACAT
 TATTCAATTTGTGCATGGAGAGGAAGACCTGAAGGTTGAGCATAGTAGCTAC
 AGACAGAGGGCCCGGCTGTTGAAGGACCAGCTCTCCCTGGGAAATGCTGCAC
 TTCAGATCACAGATGTGAAATTGCAGGATGCAGGGGTGTACCGCTGCATGAT
 CAGCTATGGTGGTGCCGACTACAAGCGAATTACTGTGAAAGTCAATGCCCA
 TACAACAAAATCAACCAAGAATTTTGGTTGTGGATCCAGTCACCTCTGAAC
 ATGAACTGACATGTCAGGCTGAGGGCTACCCCAAGGCCGAAGTCATCTGGAC
 AAGCAGTGACCATCAAGTCCTGAGTGGTAAGACCACCACCACCAATTCCAAG
 AGAGAGGAGAAGCTTTTCAATGTGACCAGCACACTGAGAATCAACACAACA
 ACTAATGAGATTTTCTACTGCACTTTTAGGAGATTAGATCCTGAGGAAAACCA
 TACAGCTGAATTGGTCATCCCAGAACTACCTCTGGCACATCCTCCAAATGAA
 AGGACTCACTTGGTAATTCTGGGAGCCATCTTATTATGCCTTGGTGTAGCACT
 GACATTCATCTTCCGTTTAAGAAAAGGGAGAATGATGGATGTGAAAAAATGT
 GGCATCCAAGATACAACTCAAAGAAGCAAAGTGATACACATTTGGAGGAG
 ACGTAATCCAGCATTGGAACCTTCTGATCTTCAAGCAGGGATTCTCAACCTGTG
 GTTTAGGGGTTTCATCGGGGCTGAGCGTGACAAGAGGAAGGAATGGACCCGTG
 GGATGCAGGCAATGTGGGACTTAAAGGCCCAAGCACTGAAAATGGAACCT
 GGCGAAAGCAGAGGAGGAGAATGAAGAAAGATGGAGTCAAACAGGGAGCC
 TGGAGGGAGACCTTGATACTTTCAAATGCCTGAGGGGCTCATCGACGCCTGT
 GACAGGGAGAAAGGATACTTCTGAACAAGGAGCCTCCAAGCAAATCATCCAT
 TGCTCATCCTAGGAAGACGGGTTGAGAATCCCTAATTTGAGGGTCAGTTCCTG
 CAGAAGTGCCCTTTGCCTCCACTCAATGCCTCAATTTCTTTTCTGCATGACTG
 AGAGTCTCAGTGTTGGAACGGGACAGTATTTATGTATGAGTTTTTCCTATTTA
 TTTTGAGTCTGTGAGGTCTTCTTGTCATGTGAGTGTGGTTGTGAATGATTTCTT
 TTGAAGATATATTGTAGTAGATGTTACAATTTTGTGCGCCAACTAACTTGCT
 GCTTAATGATTTGCTCACATCTAGTAAAACATGGAGTATTTGTAAGGTGCTTG
 GTCTCCTCTATAACTACAAGTATACATTGGAAGCATAAAGATCAAACCGTTG
 GTTGCATAGGATGTCACCTTTATTTAACCATTAAATACTCTGGTTGACCTAAT
 CTTATTCTCAGACCTCAAGTGTCTGTGCAGTATCTGTTCCATTTAAATATCAG
 CTTTACAATTATGTGGTAGCCTACACACATAATCTCATTTTCATCGCTGTAACC
 ACCCTGTTGTGATAACCACTATTATTTTACCCATCGTACAGCTGAGGAAGCAA
 ACAGATTAAGTAACTTGCCCAAACCAGTAAATAGCAGACCTCAGACTGCCAC
 CCACTGTCCTTTTATAATAACAATTTACAGCTATATTTTACTTTAAGCAATTCTT
 TTATTCAAAAACCATTATTTAAGTGCCCTTGCAATATCAATCGCTGTGCCAGG
 CATTGAATCTACAGATGTGAGCAAGACAAAGTACCTGTCCTCAAGGAGCTCA
 TAGTATAATGAGGAGATTAACAAGAAAATGTATTATTACAATTTAGTCCAGT
 GTCATAGCATAAGGATGATGCGAGGGGAAAACCCGAGCAGTGTTGCCAAGA
 GGAGGAAATAGGCCAATGTGGTCTGGGACGGTTGGATATACTTAAACATCTT
 AATAATCAGAGTAATTTTCATTTACAAAGAGAGGTCGGTACTTAAATAAACC
 CTGAAAAATAACACTGGAATTCCTTTTCTAGCATTATATTTATTCCTGATTGTC

FIG. 1 (continued)

CTTTGCCATATAATCTAATGCTTGTTTATATAGTGTCTGGTATTGTTTAAACAGT
TCTGTCTTTTCTATTTAAATGCCACTAAATTTTAAATTCATACCTTTCCATGAT
TCAA AATTCAA AAGATCCCATGGGAGATGGTTGGAAAATCTCCACTTCATCC
TCCAAGCCATTCAAGTTTCCTTTCCAGAAGCAACTGCTACTGCCTTTCATTCA
TATGTTCTTCTAAAGATAGTCTACATTTGGAAATGTATGTTAAAAGCACGTAT
TTTTAAAATTTTTTTCCTAAATAGTAACACATTGTATGTCTGCTGTGTACTTTG
CTATTTTTATTTATTTTAGTGTTTCTTATATAGCAGATGGAATGAATTTGAAGT
TCCCAGGGCTGAGGATCCATGCCTTCTTTGTTTCTAAGTTATCTTTCCCATAGC
TTTTCATTATCTTTCATATGATCCAGTATATGTTAAATATGTCCTACATATACA
TTTAGACAACCACCATTGTGTTAAGTATTTGCTCTAGGACAGAGTTTGGATTG
TTTATGTTTGCTCAAAAGGAGACCCATGGGCTCTCCAGGGTGCCTGAGTCA
ATCTAGTCCTAAAAAGCAATCTTATTATTAAGTCTGTATGACAGAATCATGTC
TGGA ACTTTTGTTTTCTGCTTTCTGTCAAGTATAAACTTCACTTTGATGCTGTA
CTTGCAAAATCACATTTTCTTTCTGGAAATTCGGGCAGTGTACCTTGACTGCT
AGCTACCCTGTGCCAGAAAAGCCTCATTGCTTGTGCTTGAACCCTTGAATGCC
ACCAGCTGTCATCACTACACAGCCCTCCTAAGAGGCTTCCTGGAGGTTTCGA
GATTCAGATGCCCTGGGAGATCCCAGAGTTTCCTTTCCCTCTTGCCCATATTC
TGGTGTCAATGACAAGGAGTACCTTGGCTTTGCCACATGTCAAGGCTGAAGA
AACAGTGTCTCCAACAGAGCTCCTTGTGTTATCTGTTTGTACATGTGCATTG
TACAGTAATTGGTGTGACAGTGTTCTTTGTGTGAATTACAGGCAAGAATTGTG
GCTGAGCAAGGCACATAGTCTACTCAGTCTATTCCTAAGTCCTAACTCCTCCT
TGTGGTGTGGATTTGTAAGGCACTTTATCCCTTTTGTCTCATGTTTCATCGTA
AATGGCATAGGCAGAGATGATACCTAATTCTGCATTTGATTGTCACCTTTTGT
ACCTGCATTAATTTAATAAAAATATTCTTATTTATTTTGTACTTGGTAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Fig. 2a

Signal peptide
 1 MRIFAVFIFMTYWILLNAFTVTVPKDLYVVEYGSNMTECKFPVEKQLDL

 Ig-V-like
 51 AALIVYWEMEDKNIIQFVHGEEDLKVQHSSYRQARLLKDQLSLGNAALQ

 101 ITDVKLQDAGVYRCMISYGGADYKRITVKVNAPYNKINQRILVDPVTSE

 Ig-C-like
 151 HELTCQAEGYPKAEVIWTSSDHQVLSGKTTTTNSKREEKLFNVTSTLRIN

 201 TITNEIFYCTFRRLDPEENHTAELVIPPLAHPNERTHLVILGAILLC

 TM
 251 LGVALTFIFRLRKGRMMDVKKCGIQDTNSKKQSDTHLEET

Fig. 2b

B7-H1 30 V E Y G S N M I E K K P E K Q L D A I I E M
 B7-1 43 K V S G H N - V E E Q T R I K
 B7-2 30 A Y F N E T D P Q E A N Q N Q S E E E V F D
 80 E D E N I I Q F H G E E D - L K V Q S R Q A R I L
 68 K M T M M S D M N - - - I W P E K N I S
 60 Q E N L E N E Y L G K E K P D S V E K M G E S
 88 K D Q L S L G A A Q Q T D V R I Q A V R M S Y
 95 I T - - - N L S I V L A R P S E T E V V L K
 90 S - - - - D S W T R L H N Q I K K L Q Q I H H
 119 G G A Y K R - - - I T K Y N A P Y K I N Q R L V V
 121 Y E K A P K E L A E T T K D P T S S D F
 116 K K P T G M I I Q M N S E L E S Q E E V P I
 145 D P V E E H E L - - - Q A E K A - E V I T S S
 151 E I P E I R R - I I E T S G F E E - H L E E N
 145 S N I E V Y I N L E S I H E E E K K M V L R
 171 D H Q - - - V S K T T N S K R E K F N T T T
 179 G E - - - N A N V Q P A V K
 175 T K N S T I Y D G M Q K - L N V L D I S
 198 R I E - - - T E E I E Y T F R R L D P E E H T A E L
 205 D F E - - - M E H S M L I K Y G H L V E - - Q T
 204 S V S F P D V S E M T I F I L E T D K T L L S - S P
 226 V P E L P L A E P N E R T
 230 N W N T T K Q E E F E N L L
 233 S E L E D P Q P E E H I P

FIG. 3

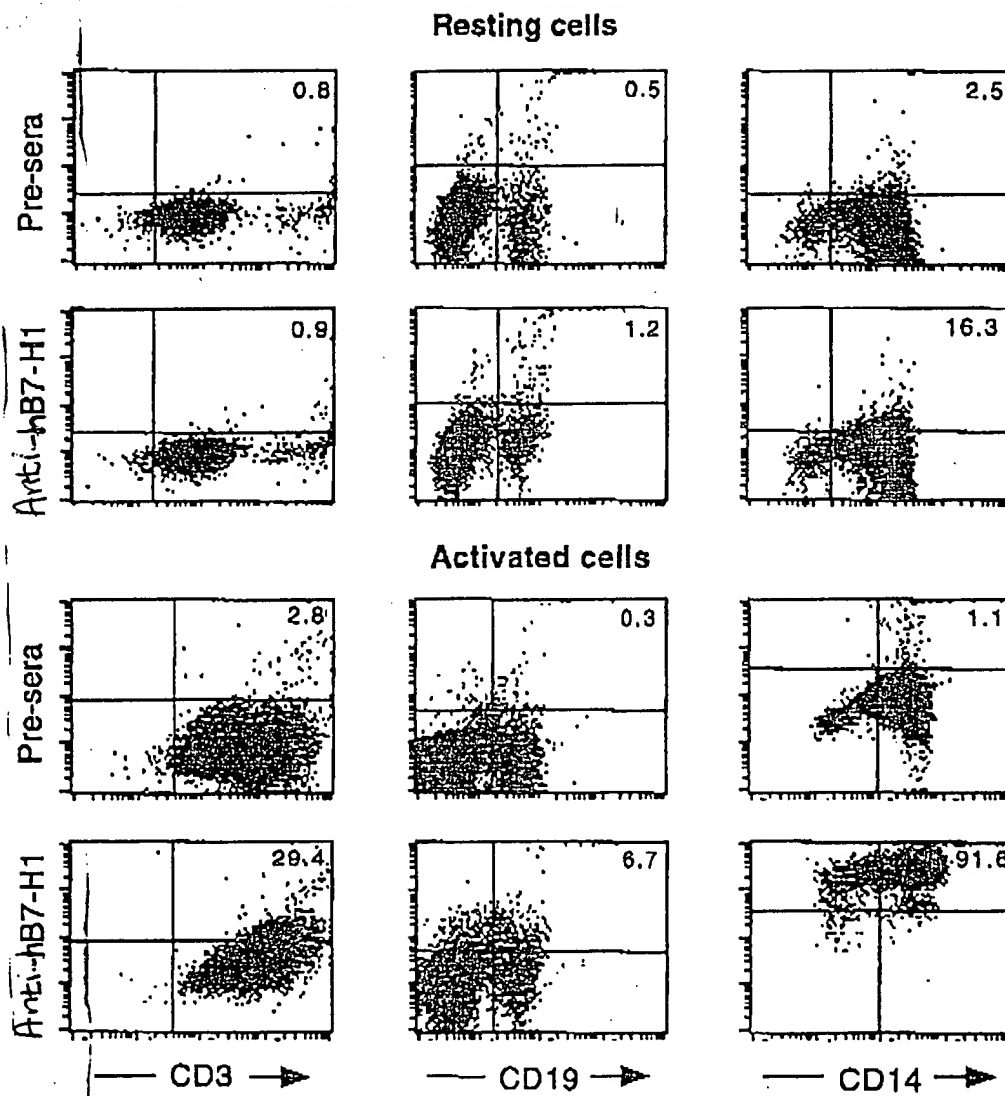
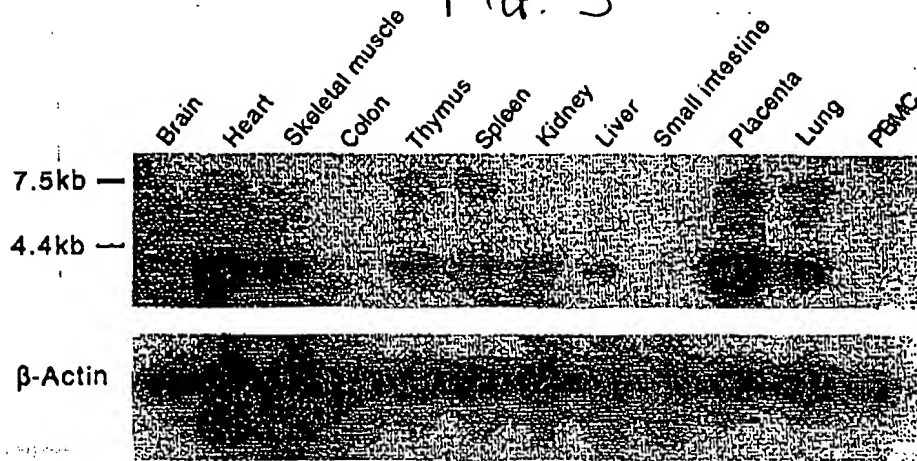


FIG. 4

FIG. 5a

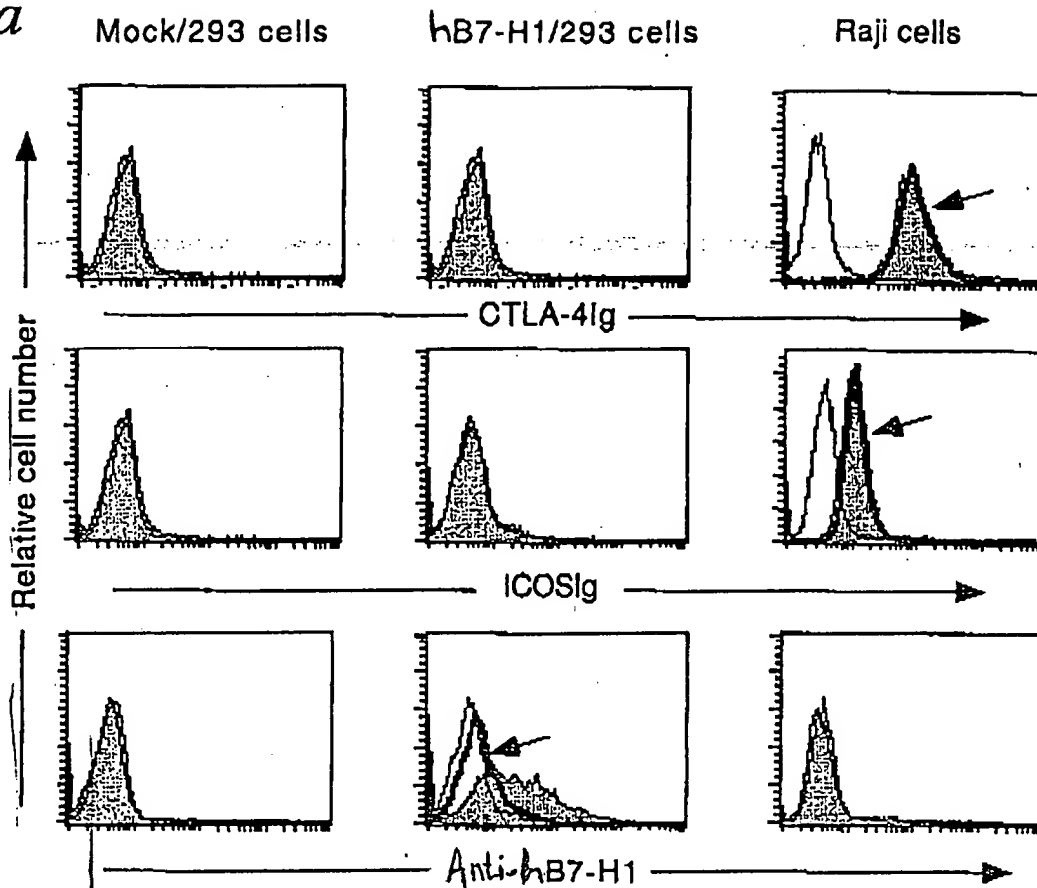


FIG. 5b

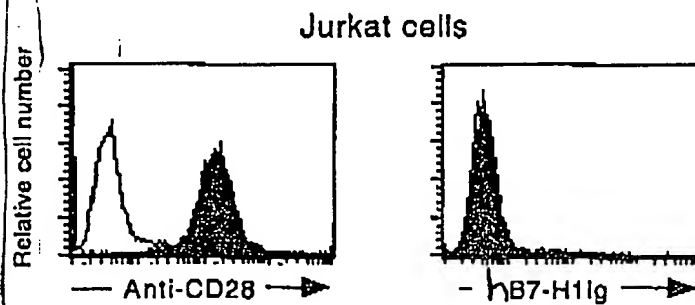


FIG. 6a

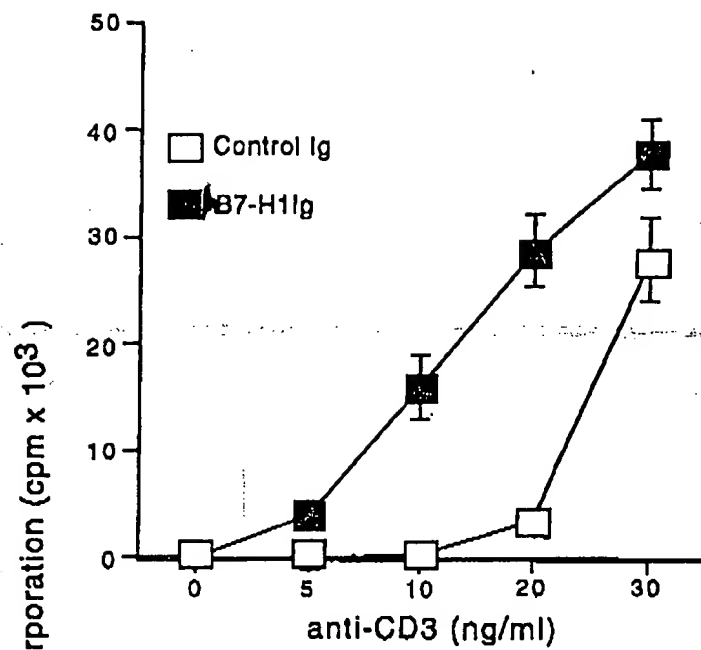
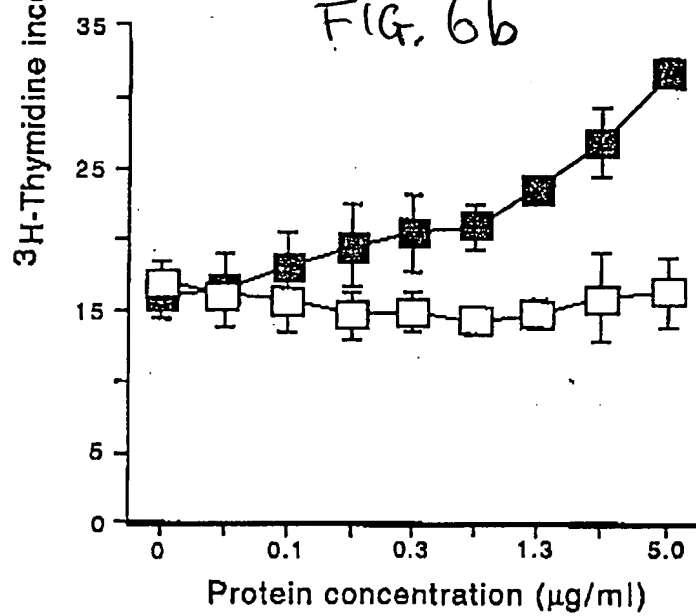


FIG. 6b



IL-10

FIG. 7a

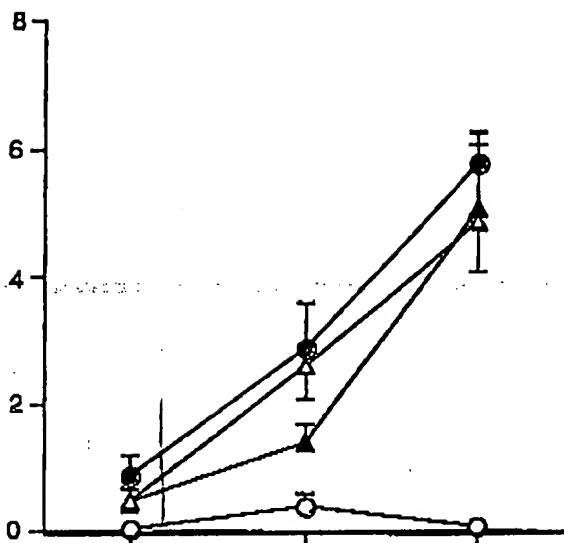
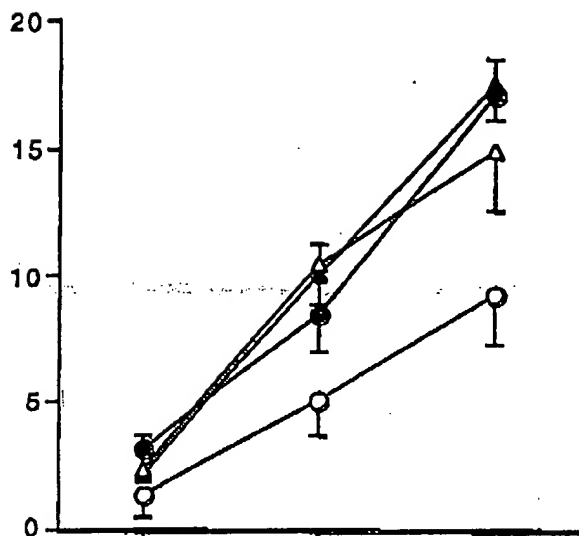
IFN- γ

FIG. 7b



Cytokine secretion (ng/ml)

IL-2

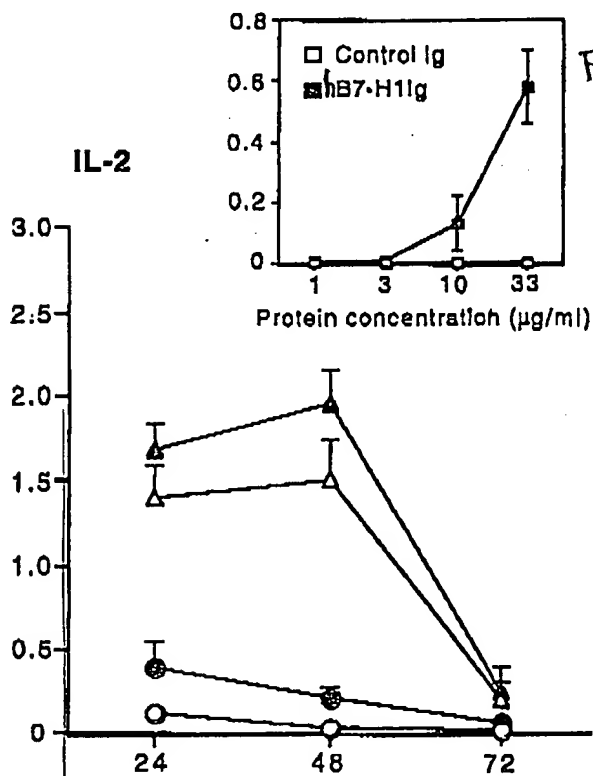


FIG. 7c

Culture time (Hours)

IL-4

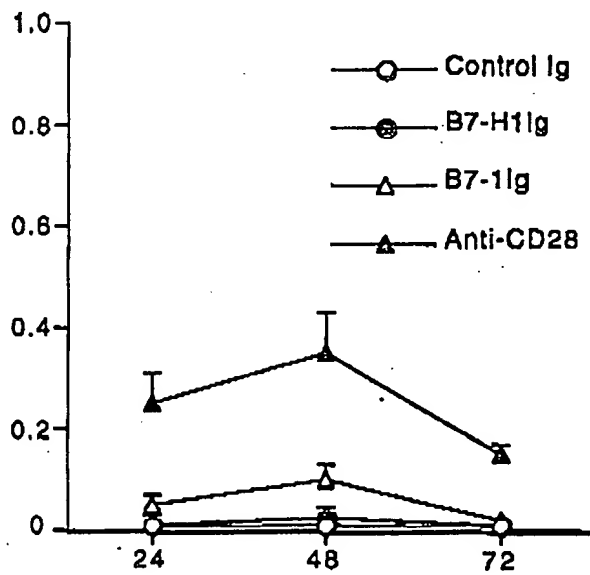


FIG. 7d

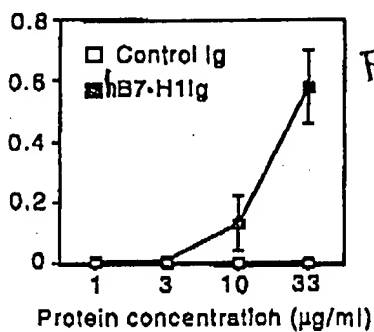


FIG. 7e

FIG. 8a

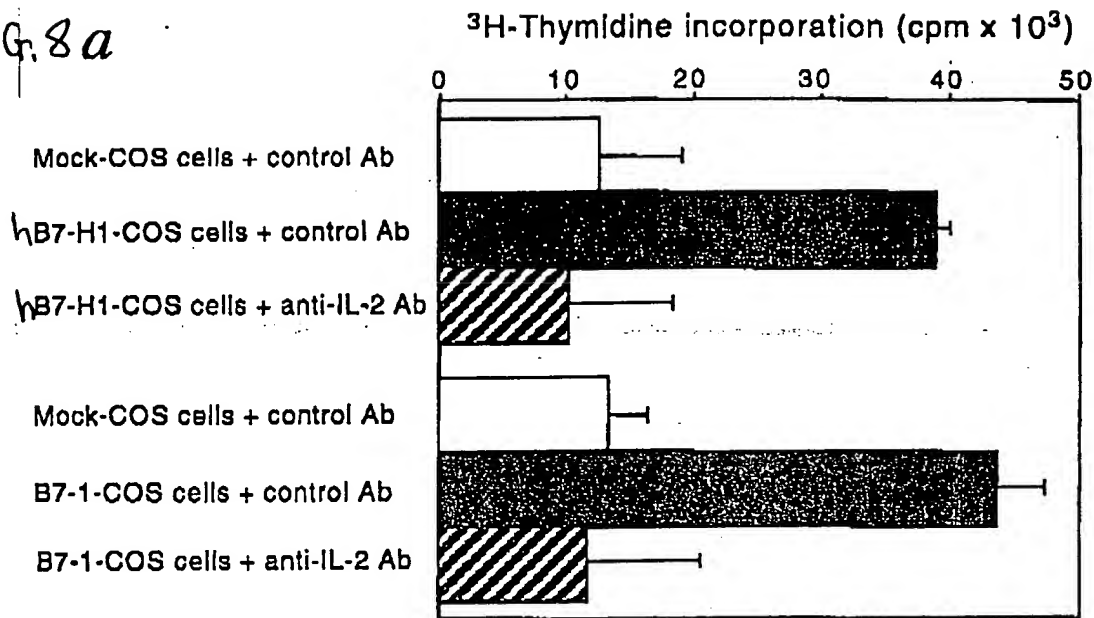


FIG. 8b

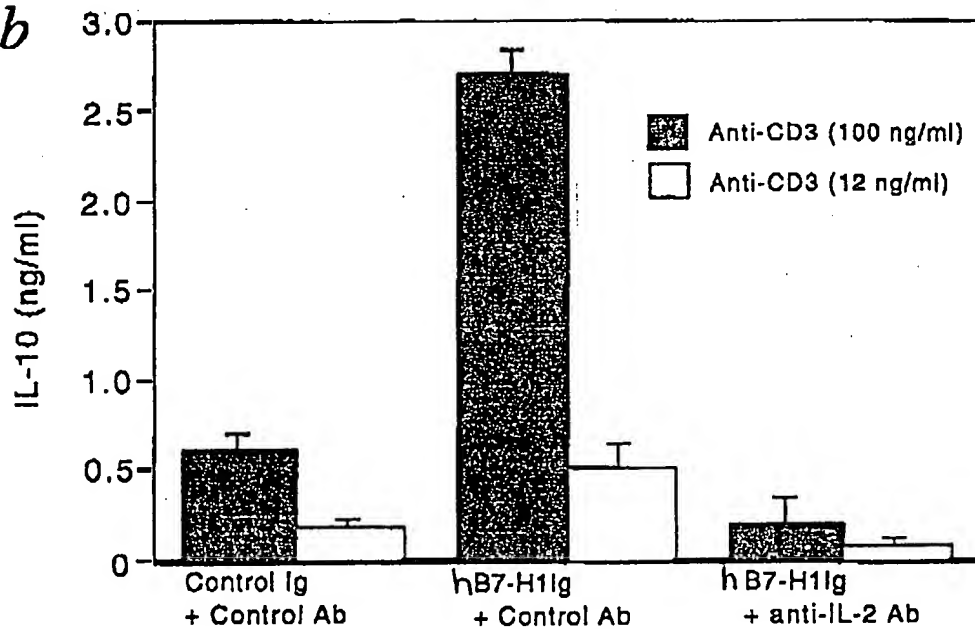


FIG. 9 a

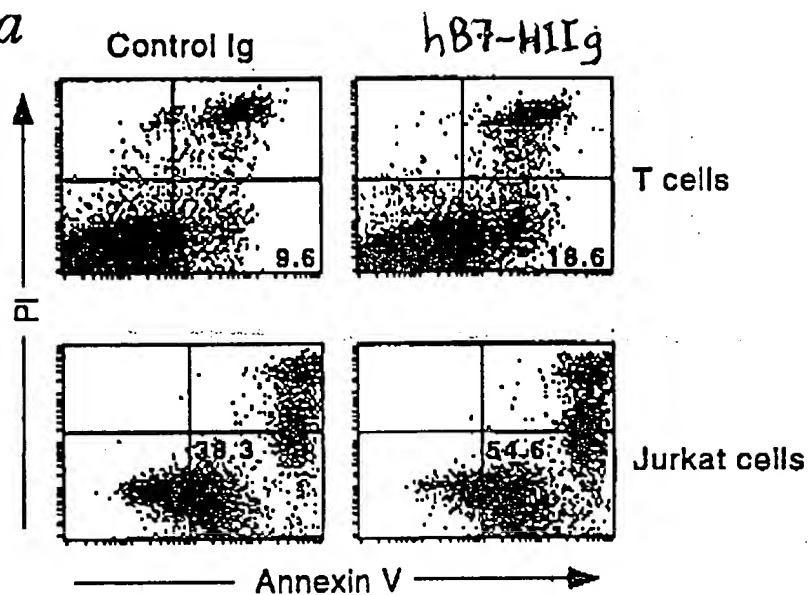


FIG. 9 b

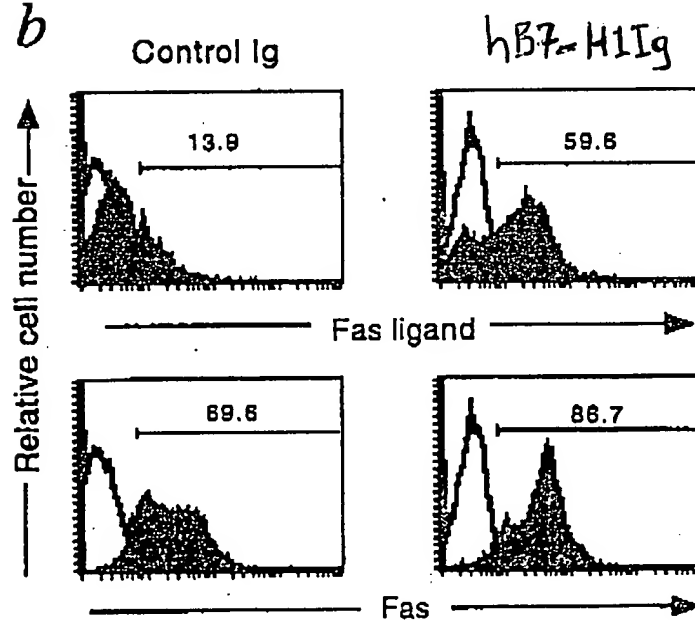


FIG. 10

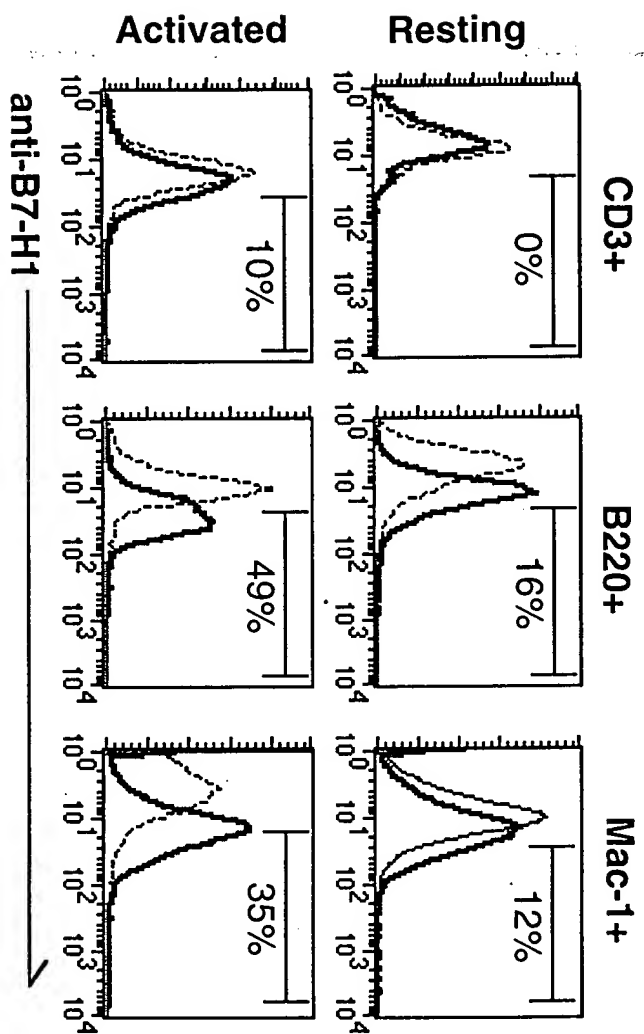
ATGAGGATATTTGCTGGCATTATATTCACAGCCTGCTGTCACTTGCTACGGGC
GTTTACTATCACGGCTCCAAAGGACTTGTACGTGGTGGAGTATGGCAGCAAC
GTCACGATGGAGTGCAGATTCCCTGTAGAACGGGAGCTGGACCTGCTTGCGT
TAGTGGTGTACTGGGAAAAGGAAGATGAGCAAGTGATTTCAGTTTGTGGCAGG
AGAGGAGGACCTTAAGCCTCAGCACAGCAACTTCAGGGGGAGAGCCTCGCT
GCCAAAGGACCAGCTTTTGAAGGGAAATGCTGCCCTTCAGATCACAGACGTC
AAGCTGCAGGACGCAGGCGTTTACTGCTGCATAATCAGCTACGGTGGTGC GG
ACTACAAGCGAATCACGCTGAAAGTCAATGCCCCATACCGCAAAATCAACCA
GAGAATTTCCGTGGATCCAGCCACTTCTGAGCATGAACTAATATGTCAGGCC
GAGGGTTATCCAGAAGCTGAGGTAATCTGGACAAACAGTGACCACCAACCCG
TGAGTGGGAAGAGAAGTGTCACCACTTCCCGGACAGAGGGGGATGCTTCTCAA
TGTGACCAGCAGTCTGAGGGTCAACGCCACAGCGAATGATGTTTTCTACTGT
ACGTTTTGGAGATCACAGCCAGGGCAAAACACACAGCGGAGCTGATCATCC
CAGAACTGCCTGCAACACATCCTCCACAGAACAGGACTCACTGGGTGCTTCT
GGGATCCATCCTGTTGTTCTCATTGTAGTGTCCACGGTCCTCCTCTTCTTGAG
AAAACAAGTGAGAATGCTAGATGTGGAGAAATGTGGCGTTGAAGATACAAG
CTCAAAAACCGAAATGATACACAATTTCGAGGAGACGTAA

FIG. 11

MRIFAGIIFTACCHLLRAFTITAPKDLYVVEYGSNVTMECRFPVERELDLLALVV
YWEKEDEQVIQFVAGEEDLKPQHSNFRGRASLPKDQLLKGNAALQITDVKLQDA
GVYCCIIISYGGADYKRITLKVNPYRKINQRISVDPATSEHELICQAEGYPEAEVI
WTNSDHQPVSGKRSVTTSRTEGMLLNVTSSLRVNATANDVFYCTFWRSQPGQN
HTAELIPELPATHPPQNRTHWVLLGSILLFLIVVSTVLLFLRKQVRMLDVEKCGV
EDTSSKNRNDTQFEET

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FIG. 12a



#16.13

FIG. 14a

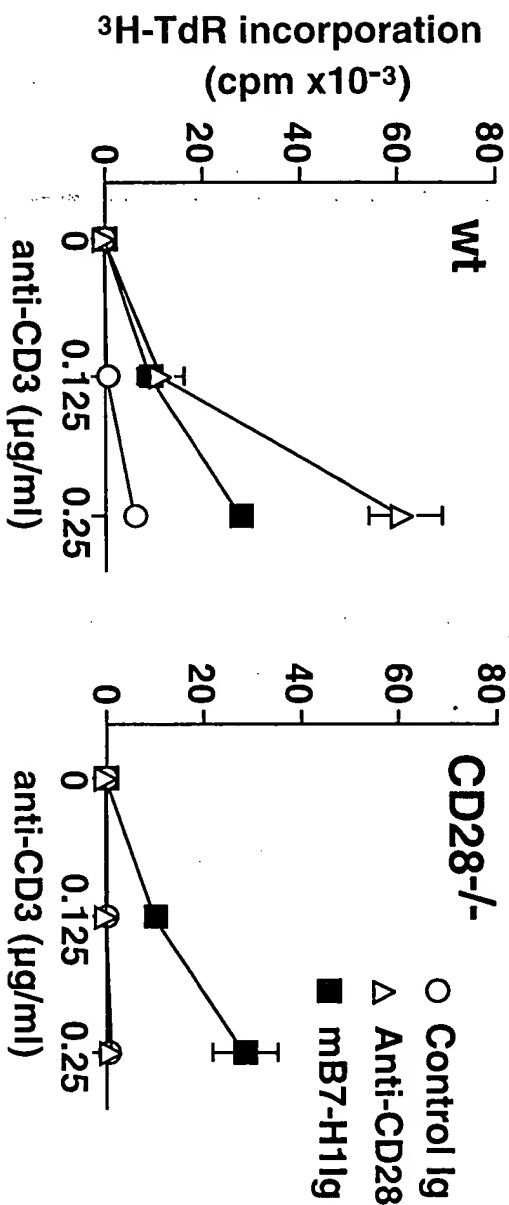
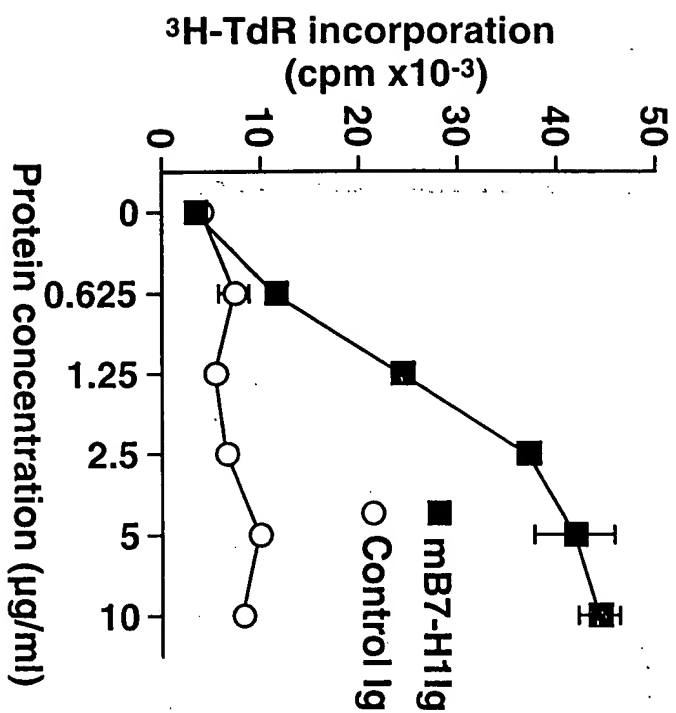


FIG. 14b

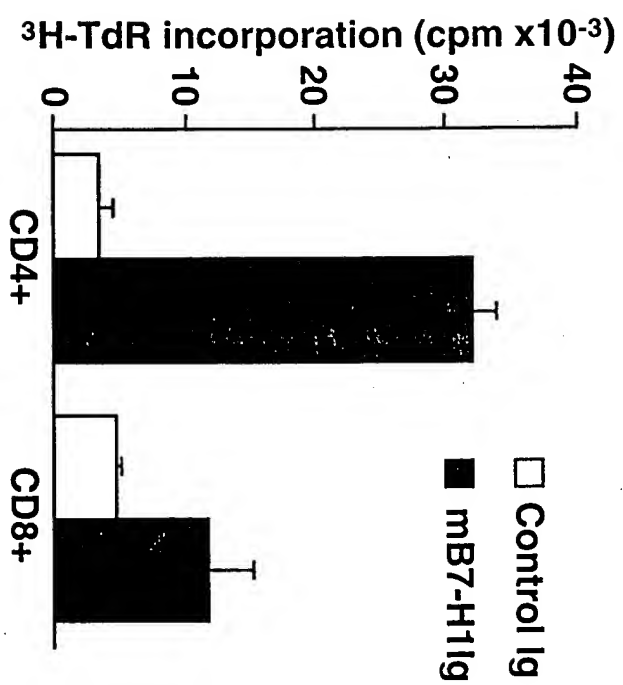


FIG. 14c

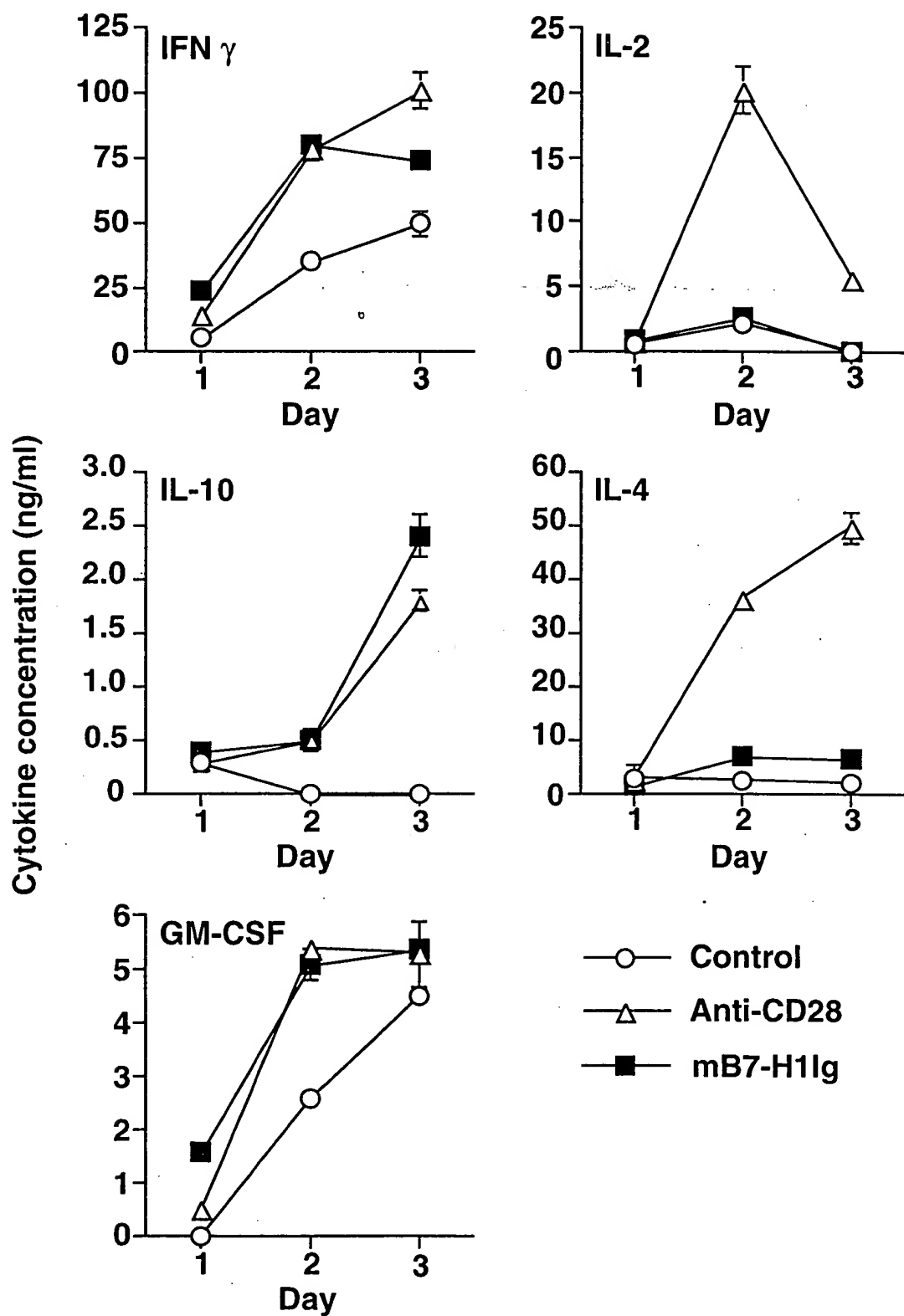


FIG. 15a

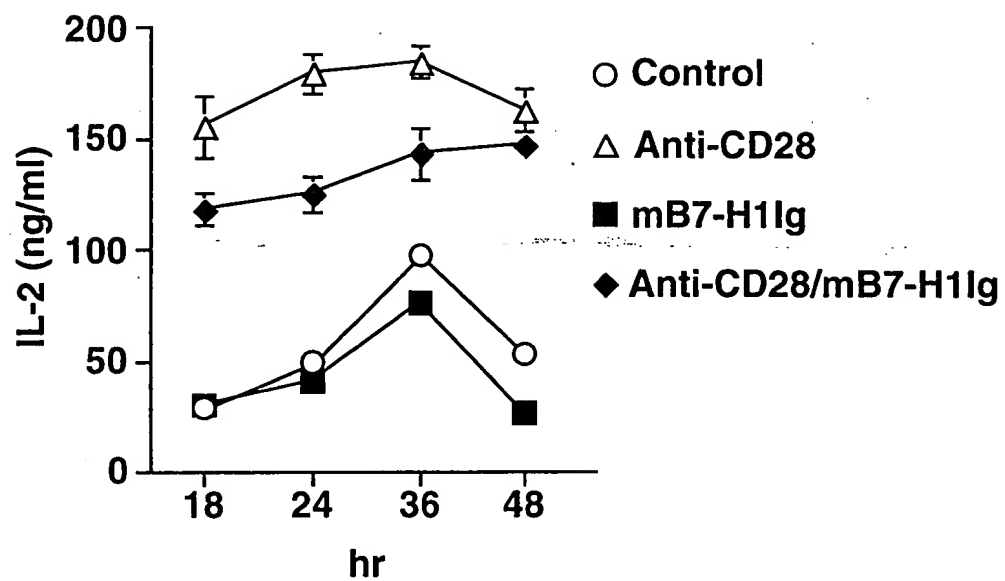


FIG. 15b

mock.P815

FIG. 16a

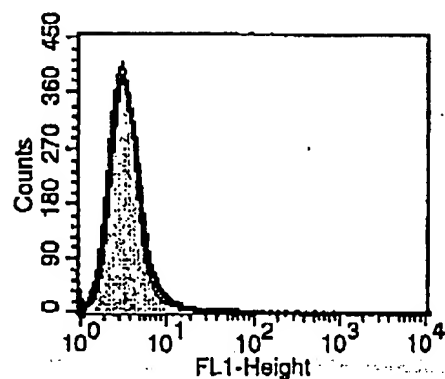
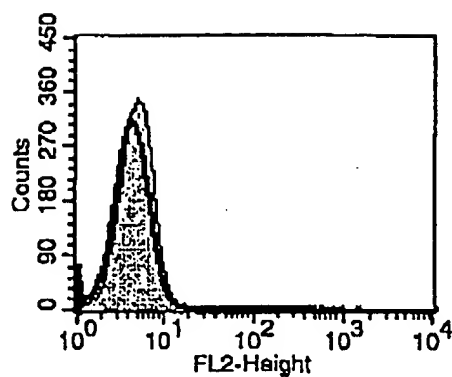


FIG. 16b



mB7-1⁺P815

FIG. 17a

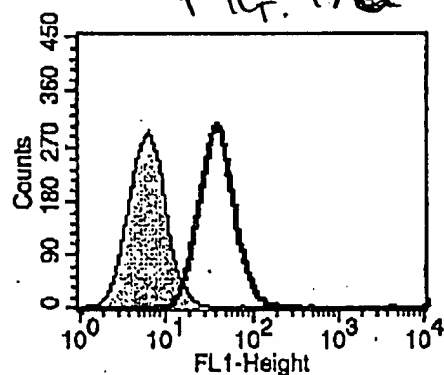
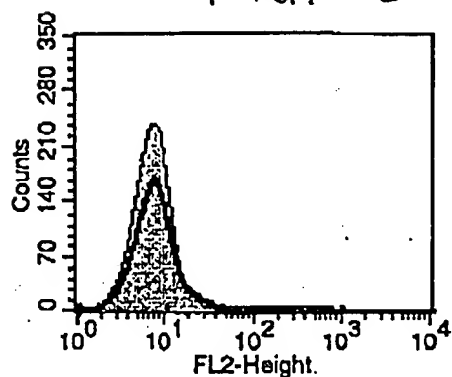


FIG. 17b



mB7-H1⁺ P815

FIG. 18a

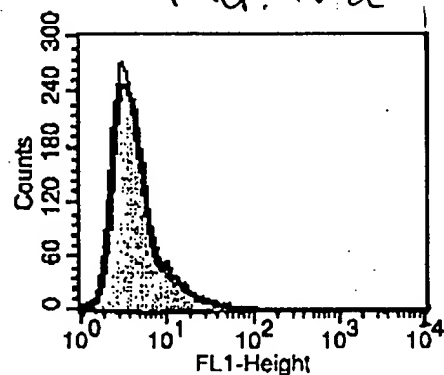
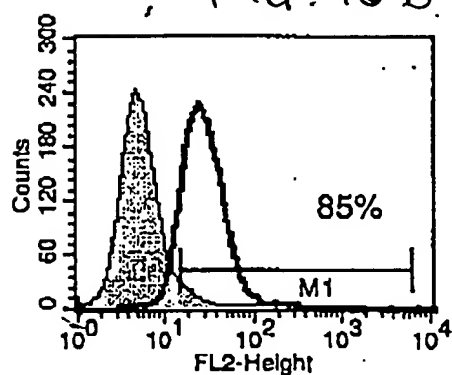


FIG. 18b



anti-mB7-1-FITC

anti-mB7H/PE

FIG. 19a

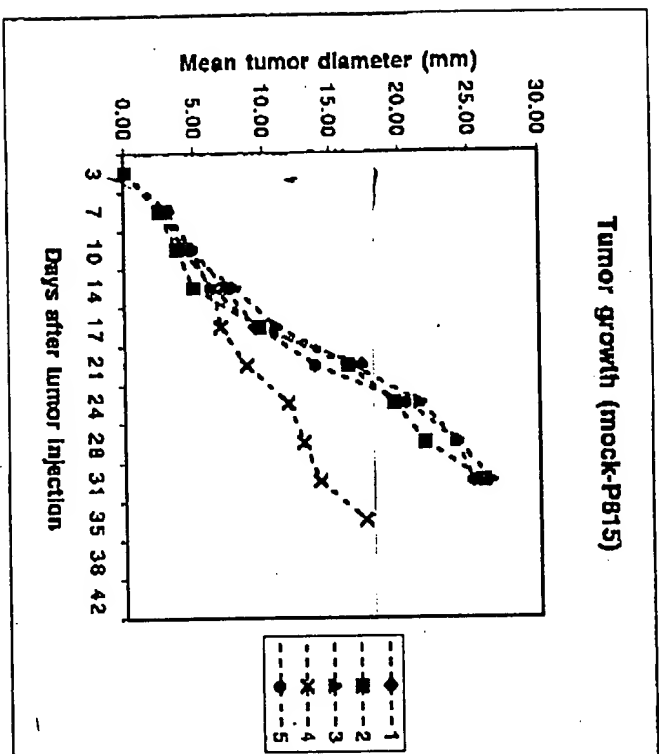


FIG. 19b

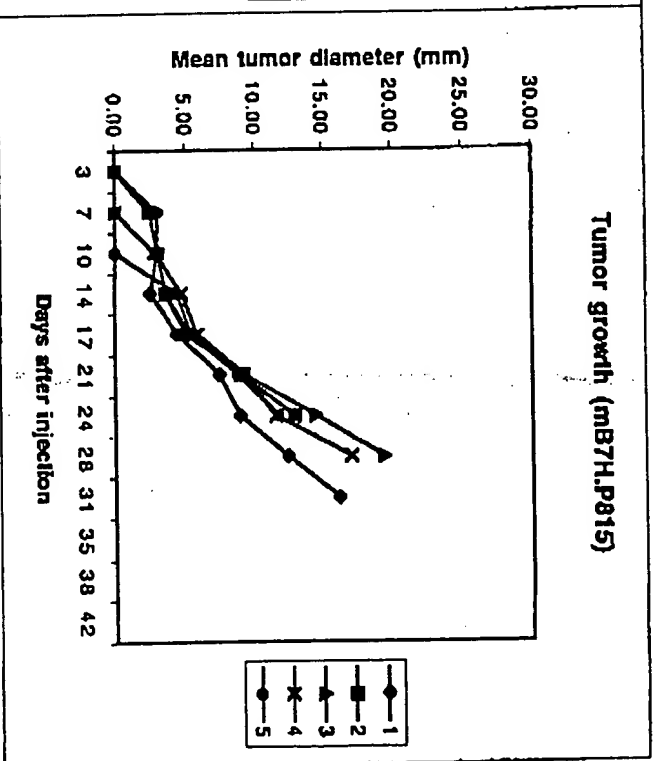


FIG. 20a

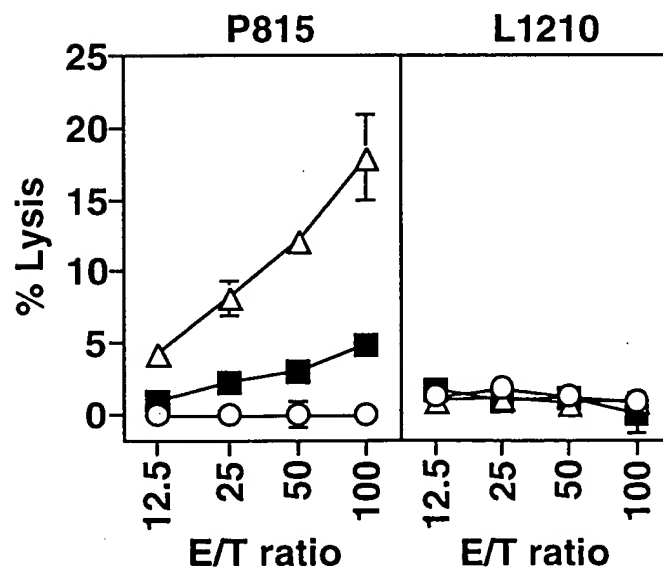
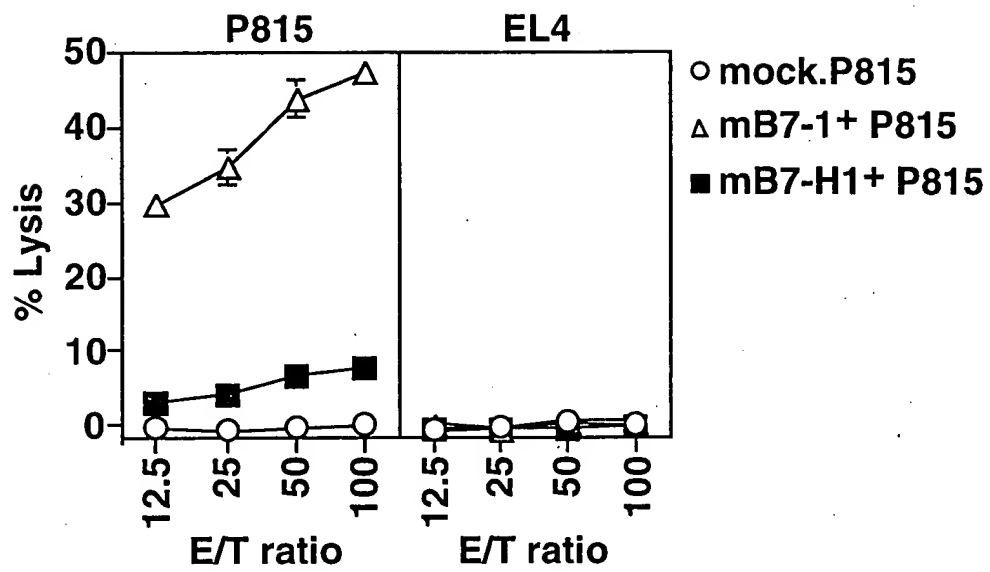


FIG. 20b

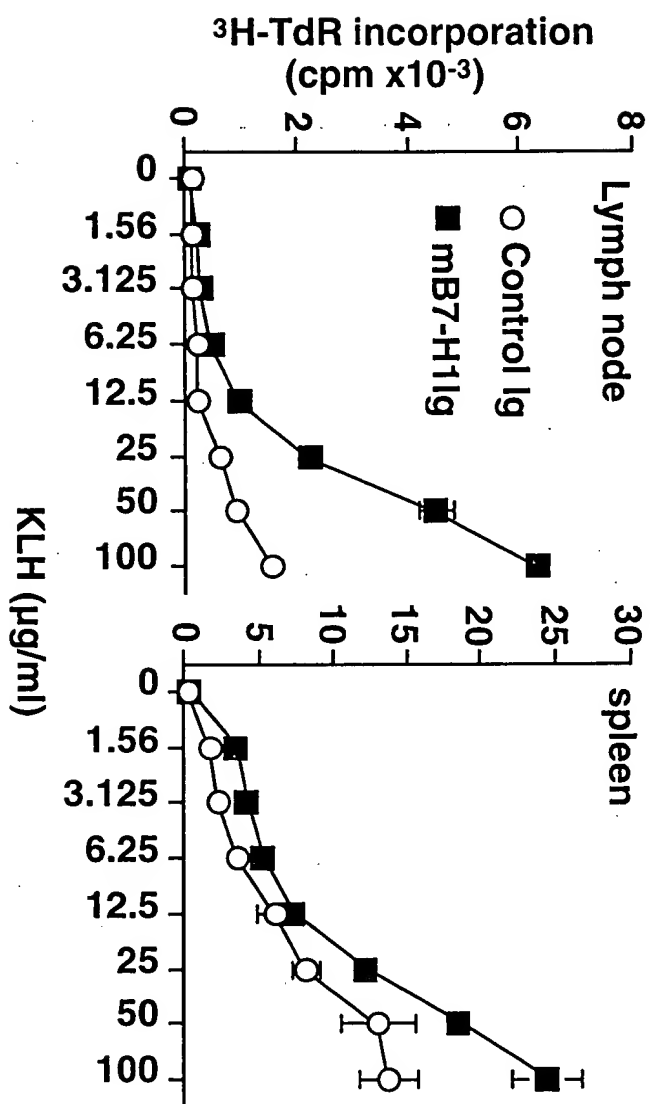


FIG. 21

0.0 0.2 0.4 0.6 0.8 1.0
IgG1 IgG2a IgG2b IgG3 IgM
Days after immunization

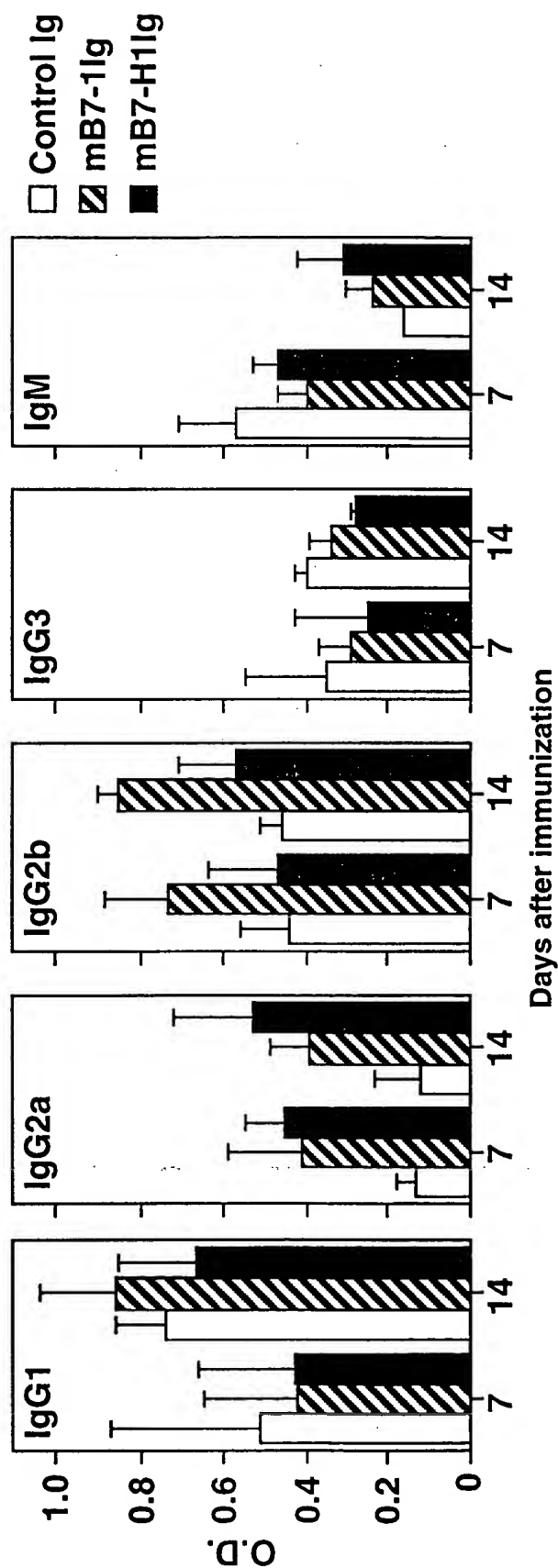


FIG. 22

Downloaded from www.jci.org on June 10, 2015

FIG. 23a

anti-CD3
+ control Ig

anti-CD3
+ anti-CD28

anti-CD3
+ mB7-H1lg

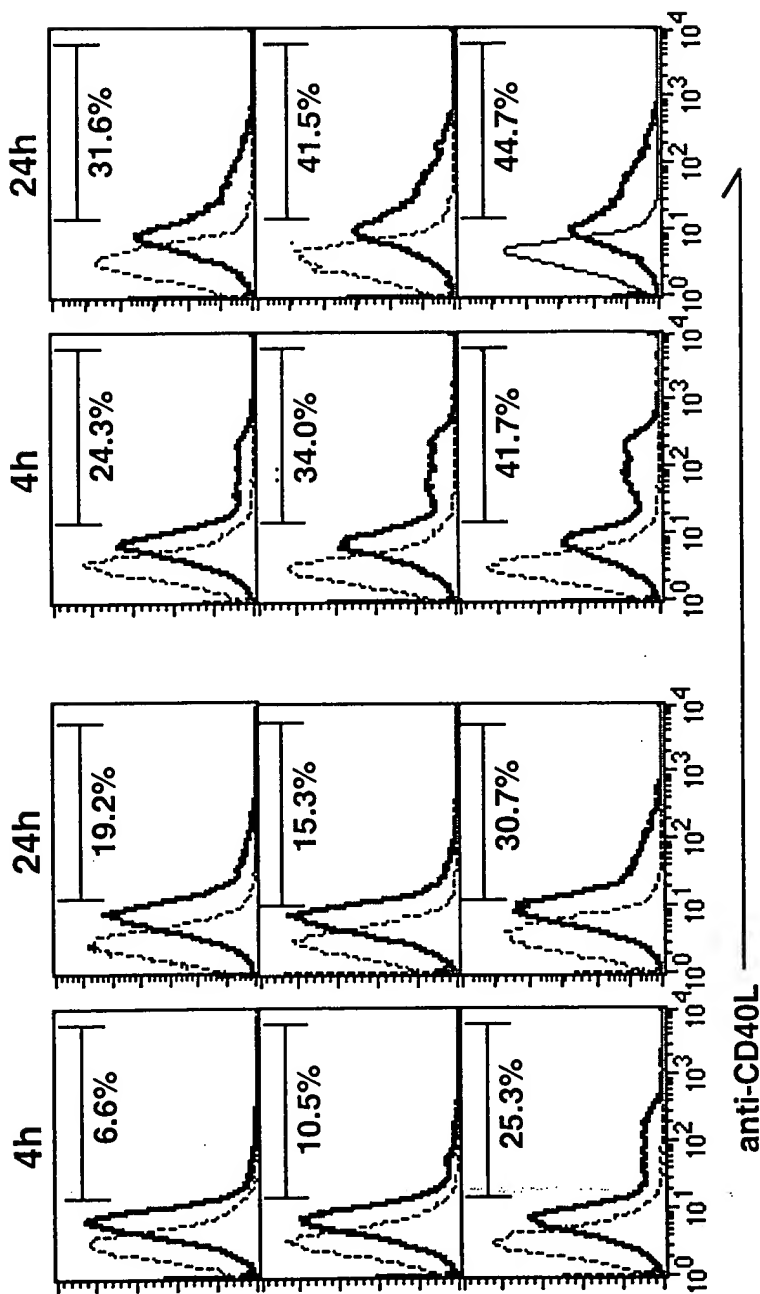


FIG. 23b

